

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits | Search Query   | DBs  | Default Operator | Plurals | Time Stamp          |
|-------|------|--|--|------------------|---------|---------------------|
| S1    | 3634 | 252/500.ccls.  | US-PGPUB;<br>USPAT;<br>USOOR; EPO;<br>JPO; DERWENT | AND              | ON      | 2008/04/02<br>16:48 |
| S2    | 735  | S1 thermoplastic                                       | US-PGPUB;<br>USPAT;<br>USOOR; EPO;<br>JPO; DERWENT | AND              | ON      | 2008/04/02<br>16:49 |
| S3    | 384  | S2 (zinc or bismuth or tin)                            | US-PGPUB;<br>USPAT;<br>USOOR; EPO;<br>JPO; DERWENT | AND              | ON      | 2008/04/02<br>16:50 |
| S4    | 249  | S3 (copper or (copper adj alloy))                      | US-PGPUB;<br>USPAT;<br>USOOR; EPO;<br>JPO; DERWENT | AND              | ON      | 2008/04/02<br>16:50 |
| S5    | 22   | ("4830779").URPN.                                      | USPAT  | AND              | ON      | 2008/04/02<br>16:55 |
| S6    | 9    | (4882227 554678 <br>6274070).pn.                       | US-PGPUB;<br>USPAT;<br>USOOR; EPO;<br>JPO; DERWENT | AND              | ON      | 2008/04/02<br>17:10 |
| S7    | 6    | "5554678"  | US-PGPUB;<br>USPAT;<br>USOOR; EPO;<br>JPO; DERWENT | AND              | ON      | 2008/04/02<br>17:11 |
| S8    | 17   | ("4882227").URPN.                                      | USPAT  | AND              | ON      | 2008/04/02<br>17:22 |
| S9    | 2480 | 428/407.ccls.  | US-PGPUB;<br>USPAT;<br>USOOR; EPO;<br>JPO; DERWENT | AND              | ON      | 2008/04/02<br>17:47 |
| S10   | 2689 | 252/511.ccls.  | US-PGPUB;<br>USPAT;<br>USOOR; EPO;<br>JPO; DERWENT | AND              | ON      | 2008/04/03<br>08:50 |
| S11   | 177  | S10 copper (volume adj<br>(resistance or resistivity)) | US-PGPUB;<br>USPAT;<br>USOOR; EPO;<br>JPO; DERWENT | AND              | ON      | 2008/04/03<br>08:54 |
| S12   | 7    | ("3083169").URPN.                                      | USPAT  | AND              | ON      | 2008/04/03<br>08:55 |

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|-----|------|---|---|-----|----|---------------------|
| S13 | 72   | S11 lead  | USPAT   | AND | ON | 2008/04/03<br>08:55 |
| S14 | 49   | S13 thermoplastic   | US-PGPUB;<br>USPAT; USOOCR                          | AND | ON | 2008/04/03<br>08:57 |
| S15 | 4    | ("4404447"   "4533685"  <br>"4566990"   "4604413").<br>PN.  | US-PGPUB;<br>USPAT; USOOCR                          | AND | ON | 2008/04/03<br>09:00 |
| S16 | 2    | "6573322"   | US-PGPUB;<br>USPAT;<br>USOOCR; EPO;<br>JPO; DERWENT | AND | ON | 2008/04/03<br>09:13 |
| S17 | 3    | ("4748193"   "4776979"  <br>"5250585").PN.  | US-PGPUB;<br>USPAT; USOOCR                          | AND | ON | 2008/04/03<br>09:13 |
| S18 | 803  | 524/434.ccls.   | US-PGPUB;<br>USPAT;<br>USOOCR; EPO;<br>JPO; DERWENT | AND | ON | 2008/04/03<br>09:13 |
| S19 | 92   | S18 lead thermoplastic  | US-PGPUB;<br>USPAT;<br>USOOCR; EPO;<br>JPO; DERWENT | AND | ON | 2008/04/03<br>09:14 |
| S20 | 7    | S19 (volume adj<br>(resistance or resistivity))   | US-PGPUB;<br>USPAT;<br>USOOCR; EPO;<br>JPO; DERWENT | AND | ON | 2008/04/03<br>09:14 |
| S21 | 10   | ("3609104"   "3746662"  <br>"4610808"   "5412014"  <br>"5538793"   "6361716"  <br>"6433057"   "6465082"  <br>"6469090").PN. | US-PGPUB;<br>USPAT; USOOCR                          | AND | ON | 2008/04/03<br>09:16 |
| S22 | 244  | "4545926"   | US-PGPUB;<br>USPAT; USOOCR                          | AND | ON | 2008/04/03<br>09:19 |
| S23 | 153  | ("4545926").URPN.   | USPAT   | AND | ON | 2008/04/03<br>09:19 |
| S24 | 5    | "6182486"   | US-PGPUB;<br>USPAT;<br>USOOCR; EPO;<br>JPO; DERWENT | AND | ON | 2008/04/03<br>09:28 |
| S25 | 6    | ("4450977"   "4474685"  <br>"5055143"   "5193265"  <br>"5531851"   "6029269").<br>PN.                                       | US-PGPUB;<br>USPAT; USOOCR                          | AND | ON | 2008/04/03<br>09:34 |
| S26 | 42   | ("4474685").URPN.   | USPAT   | AND | ON | 2008/04/03<br>09:35 |
| S27 | 2222 | 252/512.ccls.   | US-PGPUB;<br>USPAT;<br>USOOCR; EPO;<br>JPO; DERWENT | AND | ON | 2008/04/03<br>09:43 |

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|-----|------|--|---|-----|----|------------------|
| S28 | 38   | S27 copper (volume adj (resistance or resistivity)) lead thermoplastic                   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2008/04/03 09:43 |
| S29 | 42   | S27 (volume adj (resistance or resistivity)) lead thermoplastic                          | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2008/04/03 09:43 |
| S30 | 3    | ("4582661").URPN.  | USPAT                                     | AND | ON | 2008/04/03 09:46 |
| S31 | 8    | (thermoplastic bismuth. ab.) (metal\$3 near3 fibers)                                     | US-PGPUB; USPAT; USOCR                    | AND | ON | 2008/11/24 16:37 |
| S32 | 4    | ("5554678").URPN.  | USPAT                                     | AND | ON | 2008/11/24 16:51 |
| S33 | 2    | "6685854"  | USPAT                                     | AND | ON | 2008/11/24 16:52 |
| S34 | 6    | "6685854"  | US-PGPUB; USPAT; USOCR                    | AND | ON | 2008/11/24 16:52 |
| S35 | 5388 | 252/500-503.ccls.  | US-PGPUB; USPAT; USOCR                    | AND | ON | 2008/11/24 16:55 |
| S36 | 110  | S35 (((metal\$3 or conductive) near3 fiber) same ("30" or "35" or "40" or "45" or "50")) | US-PGPUB; USPAT; USOCR                    | AND | ON | 2008/11/24 16:56 |
| S37 | 10   | S36 (thermoplastic.ab.)  | US-PGPUB; USPAT; USOCR                    | AND | ON | 2008/11/24 16:57 |
| S38 | 57   | S36 (thermoplastic)  | US-PGPUB; USPAT; USOCR                    | AND | ON | 2008/11/24 16:57 |
| S39 | 4    | S38 ((low near3 melt\$3) same metal)   | US-PGPUB; USPAT; USOCR                    | AND | ON | 2008/11/24 17:01 |
| S40 | 2666 | (digital near3 image) same (ceramic or glass)  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2008/11/25 09:06 |
| S41 | 7    | S40 (screen adj print\$3). ab.   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2008/11/25 09:06 |
| S42 | 307  | (digital near3 image) same ((ceramic or glass) same substrate)                           | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2008/11/25 09:07 |
| S43 | 4    | S42 (screen adj print\$3). ab.   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2008/11/25 09:07 |

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|-----|-----|---|--|-----|----|---------------------|
| S44 | 195 | (digital near3 image)<br>same ((ceramic or glass)<br>near3 substrate)       | US-PGPUB;<br>USPAT;<br>USOOR; EPO;<br>JPO; DERWENT | AND | ON | 2008/11/25<br>09:08 |
| S45 | 2   | "20070092295"   | US-PGPUB;<br>USPAT;<br>USOOR; EPO;<br>JPO; DERWENT | AND | ON | 2008/11/25<br>09:12 |
| S46 | 42  | mcp adj "200"   | US-PGPUB;<br>USPAT;<br>USOOR; EPO;<br>JPO; DERWENT | AND | ON | 2009/06/25<br>09:36 |
| S47 | 73  | (leadless or (lead adj (less<br>or free))) near5<br>thermoplastic           | US-PGPUB;<br>USPAT;<br>USOOR; EPO;<br>JPO; DERWENT | AND | ON | 2009/06/25<br>09:46 |
| S48 | 3   | ("2002/0043398").URPN.  | USPAT  | AND | ON | 2010/04/01<br>13:23 |
| S49 | 1   | 10/877092.app.  | US-PGPUB;<br>USPAT; USOOR                          | AND | ON | 2010/04/01<br>13:27 |
| S50 | 1   | 09/027214.app.  | US-PGPUB;<br>USPAT; USOOR                          | AND | ON | 2010/04/01<br>13:33 |
| S51 | 7   | ("6342680").URPN.   | USPAT  | AND | ON | 2010/04/01<br>13:34 |
| S52 | 278 | (copper adj fiber) same<br>length   | US-PGPUB;<br>USPAT;<br>USOOR; EPO;<br>JPO; DERWENT | AND | ON | 2010/04/08<br>19:25 |
| S53 | 27  | S52 (thermoplastic.ab.)   | US-PGPUB;<br>USPAT;<br>USOOR; EPO;<br>JPO; DERWENT | AND | ON | 2010/04/08<br>19:25 |
| S54 | 333 | ((lead adj "less") or (lead<br>adj free) or leadless)<br>same thermoplastic | US-PGPUB;<br>USPAT;<br>USOOR; EPO;<br>JPO; DERWENT | AND | ON | 2010/04/09<br>09:11 |
| S55 | 3   | "20030153223"   | US-PGPUB;<br>USPAT;<br>USOOR; EPO;<br>JPO; DERWENT | AND | ON | 2010/04/09<br>11:55 |

**EAST Search History (Interference)**

| Ref # | Hits | Search Query   | DBs         | Default Operator | Plurals | Time Stamp       |
|-------|------|----------------|-------------|------------------|---------|------------------|
| L1    | 0    | 428/297 4 ccls | USPAT; UPAD | AND              | ON      | 2012/01/09 18:30 |
| L2    | 722  | 428/297 4 ccls | USPAT; UPAD | AND              | ON      | 2012/01/09 18:30 |
| L3    | 160  | 2 copper       | USPAT; UPAD | AND              | ON      | 2012/01/09 18:30 |
| L4    | 62   | 3 zinc         | USPAT; UPAD | AND              | ON      | 2012/01/09 18:31 |

|     |      |                   |             |     |    |                  |
|-----|------|-------------------|-------------|-----|----|------------------|
| L5  | 2567 | I28/220.ccls.     | USPAT; UPAD | AND | ON | 2012/01/09 18:32 |
| L6  | 25   | I5 I2             | USPAT; UPAD | AND | ON | 2012/01/09 18:32 |
| L7  | 344  | I252/519.33.ccls. | USPAT; UPAD | AND | ON | 2012/01/09 18:33 |
| L8  | 0    | I7 I1             | USPAT; UPAD | AND | ON | 2012/01/09 18:33 |
| L9  | 167  | I7 copper         | USPAT; UPAD | AND | ON | 2012/01/09 18:33 |
| L10 | 58   | I9 filled         | USPAT; UPAD | AND | ON | 2012/01/09 18:34 |

1/9/2012 6:38:09 PM

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thermoplastic with metal filler.wsp